**Comments for "Measurable Weak Sections" G. A. Edgar**

**Correction, page 639, line 6.** Replace "Thus" to the end of the proof with the following.

Thus

$$u^{-1}(G) \subseteq \{\, s \in S : s \in \Phi'(G) \,\} = \Phi'(G).$$

But an open Baire set is a countable union of closed Baire sets, and $\Phi$ is a $\sigma$-homomorphism, so $u^{-1}(G) \equiv \Phi'(G)$ $[\mu]$ for open Baire sets $G$. But $\mathscr{B}(X)$ is generated by the open Baire sets, so $u^{-1}(A) \in \Phi(A)$ for all $A \in \mathscr{B}(X)$.

**Prop. 1.4 "Lifting of measures".** See:

N. Bourbaki, *Intégration,* Ch. IX, §2, no. 4, Prop. 8. (1969)

Lembcke, Konservative Abbildungen und Fortsetzung regulärer Maße.

Bauer, Konservative Abbildungen lokal-kompakter Räume. *Math. Ann.* **138** (1959) 398–427.

**Theorem 2.3.** Parts (b) and (c) are doubtful.

**Prop. 3.4** Probably *Borel* measurability holds. See Babiker & Knowles, *Mathematika* **25** (1978) 120–124.

**Theorem 3.8.** Alternate proof by M. Talagrand.

**related papers.**

J. Lehn (uniqueness of preimage measures)

H. v. Weizsäcker

S. Graf, Measurable Weak Selections

S. Graf, A parametrization of measurable sections via extremal preimage measures

D. H. Wagner, Survey of measurable selection theorems. *Siam J. Control & Opt* **15** (1977) 859–903.

A. D. Ioffe, Survey of measurable selection theorems: Russian literature supplements. *Siam J. Control & Opt* **16** (1978) 728–732.

Leese, Measurable selections and the uniformization of Suslin sets. *Amer. J. Math.*

Rieder, Measurable selection theorems for optimization problems. *Manuscripta Math.* **24** (1978) 115–131.

W. Hackenbroch, Dilated selection theorems and extremal preimage measures. *Arch. Math.* **43** (1984) 434-439.